

WHAT IS CLAIMED IS:

1. A dust collector comprising:
  - a motor functioning as a driving source;
  - a drive unit for driving a motor;
  - 5 a dust collection fan rotated by the motor;
  - a head section for accommodating the dust collection fan;
  - a switch provided on the head section to control the starting of the motor;
  - a tank section located below the head section, for
  - 10 accommodating dust conveyed by the dust collection fan, the tank section having a connecting portion;
  - a duct hose having one end and the other end, the one end attached to the connecting portion, the other end being detachable from a portion of a power tool;
  - 15 a remote-control transmitter for transmitting a signal;
  - and
  - a remote-control receiver for receiving the signal from the remote-control transmitter to control the drive unit to start or stop the motor.
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2. The dust collector according to claim 1, further comprising:
  - a changeover switch for effecting a changeover between whether the drive unit is turned on or off by the turning on
  - 25 or off of the switch and whether the drive unit is turned on

or off based on a reception of the signal from the remote-control transmitter by the remote-control receiver.

3. The dust collector according to claim 1, further  
5 comprising: a catching hook portion having a substantially U-shaped cross section provided at the remote-control transmitter.

4. The dust collector according to claim 1, further  
10 comprising: at least one of an accommodating portion for accommodating the remote-control transmitter and a retaining portion for retaining the remote-control transmitter; and  
the at least one of the accommodating portion and the retaining portion is provided in the head section.

15 5. The dust collector according to claim 1,  
wherein the at least one of the accommodating portion and the retaining portion has a projection/depression-shaped portion;

20 the remote-control transmitter has a counterpart projection/depression-shaped portion to be fitted to the projection/depression-shaped portion; and

the counterpart projection/depression-shaped portion is formed on an exterior portion of the at least one of the  
25 accommodating portion and the retaining portion.

6. The dust collector according to claim 1, further comprising: a receiving antenna connected to the remote-control receiver;

5 wherein the receiving antenna connected to the remote-control receiver is disposed in an area where the motor has not an influence.

7. The dust collector according to claim 6, wherein the area  
10 where the motor has not an influence is located above the motor inside the head section.

8. The dust collector according to claim 6, wherein the area  
where the motor has not an influence is located below the motor  
15 inside the head section.

9. The dust collector according to claim 6, wherein the area  
where the motor has not an influence is located in the tank  
section.

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10. The dust collector according to claim 6, wherein connection between the receiving antenna and the remote-control receiver is effected by a coaxial cable disposed at a predetermined distance from a periphery of the motor.

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